The Beosystem 2300 is a fully integrated music system with radio, compact disc player and speakers all in one unit. It can be placed anywhere you want music – on a wall in the specially designed Bracket 2500, or on a table or sideboard.

Whenever you reach out to operate the Beosystem 2300, the glass doors slide open as if by magic, inviting you in to the music.

All the operating buttons are located in one place. They are conveniently grouped according to type of function, so you can easily find your way around the keypad while operating the system.

User's guide

This user's guide describes the operation of the Beosystem 2300, which comprises the small Beocenter 2300 and its active Beolab 2500 loudspeakers. The Beolab 2500 speakers are optional, and the Beocenter 2300 centre unit may be set up and used with other types of active, Bang & Olufsen Power Link speakers.

This guide applies to both types of setup.

Complete setting-up instructions for the centre unit and for the loudspeakers of the Beosystem 2300 are found in the setting-up guides enclosed with the products.

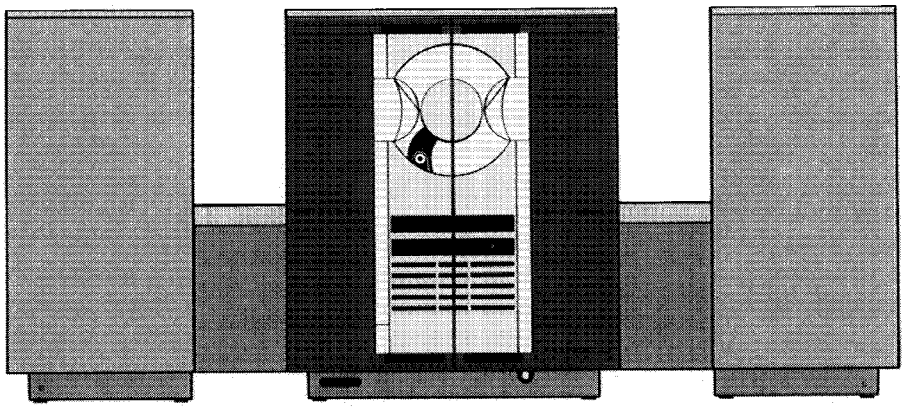
4 *Open to possibilities*
6 ***Principles of operation***
Primary functions
Displays
Number buttons
Secondary functions
8 *Using the radio*
10 *Using the CD player*
18 *Adjusting and setting sound*
20 *Survey of status displays*
22 *Remote control*
23 *Maintenance*

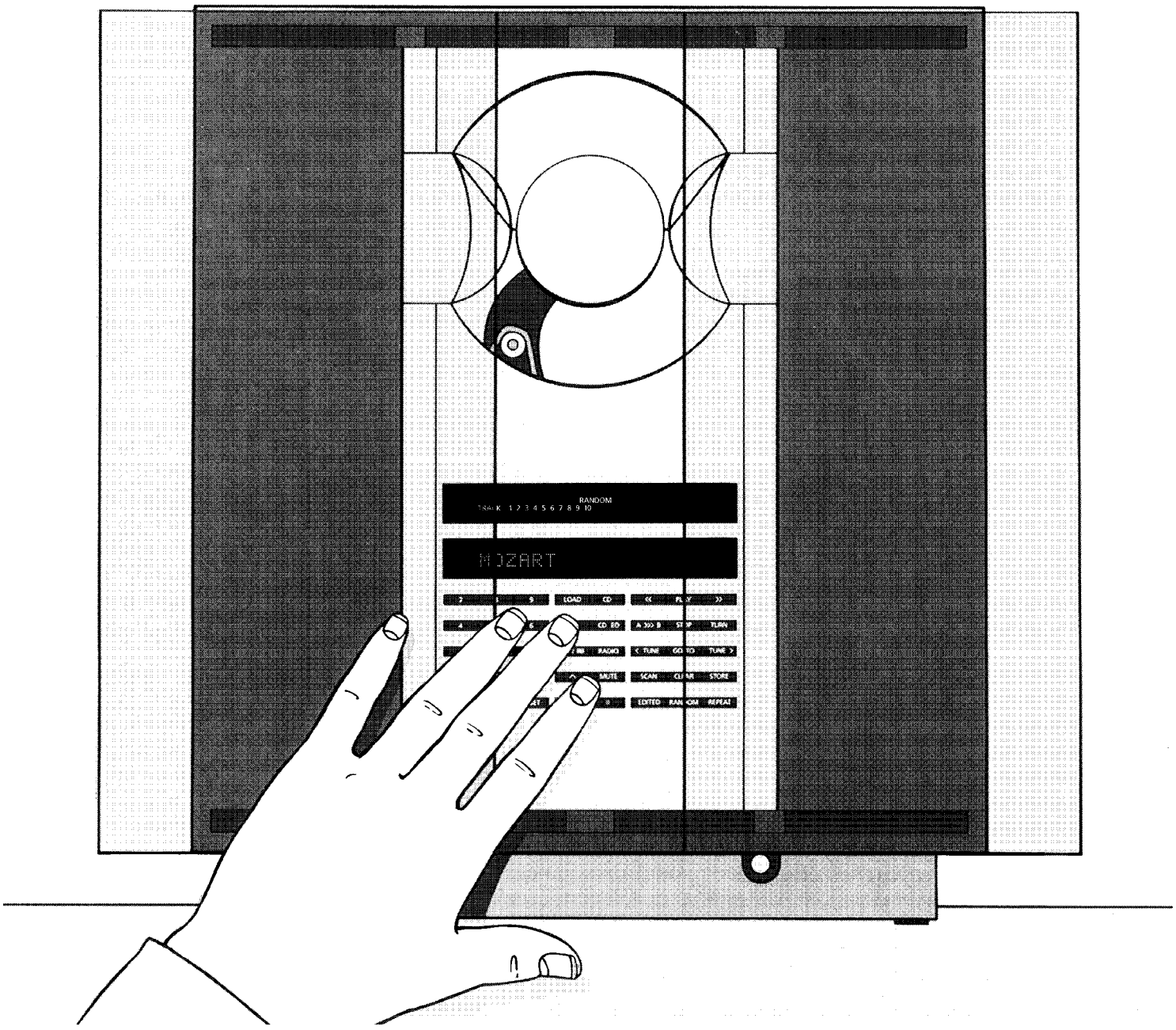
Your Beosystem 2300 is versatile, mobile... and responsive!

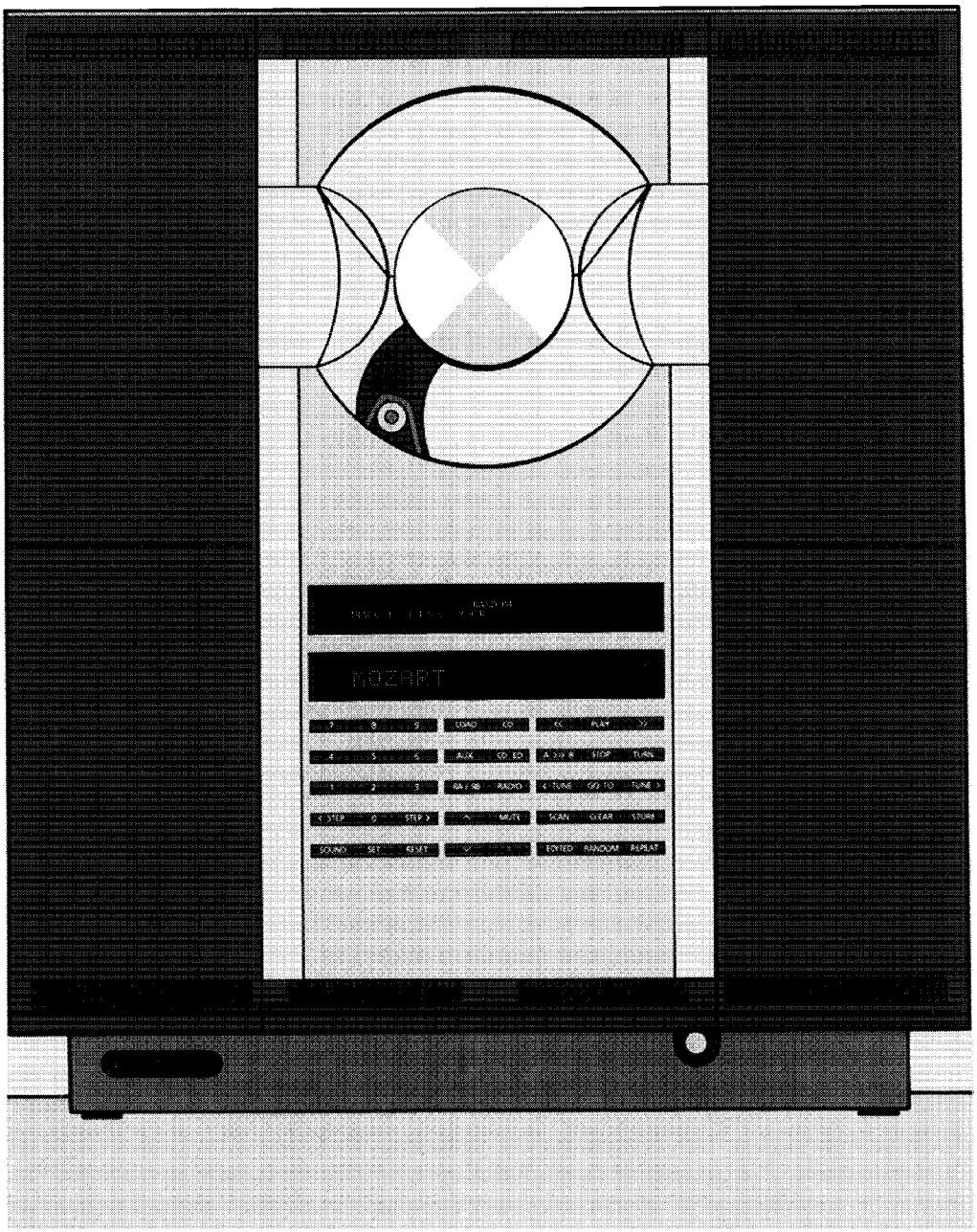
You can move the whole system, including loudspeakers, around at will and place it wherever you like – on the wall in a specially designed bracket or on a table.

But no matter where you place your Beosystem 2300, it will always respond to a wave of your hand.

As soon as you reach out to touch the glass doors, the Beosystem opens automatically, revealing the music system concealed behind the screen.




RANDOM
MOZART
LOAD
CD
RADIO
MUTE
SCAN
STORE
REPEAT



The compact disc is kept in place by a clamp, which can be raised by pressing the LOAD button (on the operating panel). Discs must be loaded so the text side is facing you

The two displays give you a status of what the system is doing, and they also cue you through some of the less routine functions in the system

The controls on the operating panel give you complete control of the CD player and the radio

Socket for headphones

The open doors give you access to the operating panel and display.

Primary functions
The buttons in the middle of the panel give you access to all the primary functions in the Beosystem:

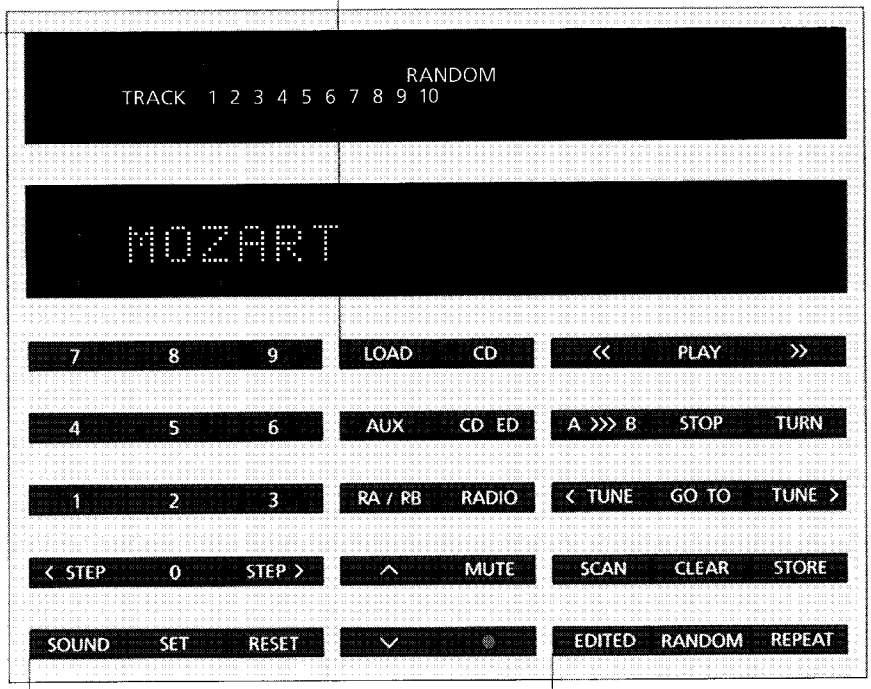
LOAD: raises and lowers the CD clamp
CD, RADIO: plays the CD or the radio
AUX: switches on any auxiliary Bang & Olufsen equipment
∧ or ∨: raises or lowers the volume level
MUTE: mutes or demutes the loudspeakers
●: switches the system to the stand-by mode

Displays
The displays tell you what the system is doing

The cues in the upper display relate to functions in the CD player

The lower display can read out the name of the current radio station, or it can tell you which CD is playing

Note: Names of radio stations can be read out only if the Beosystem 2300 is equipped with an RDS kit



For detailed operating instructions please refer to the relevant sections in this guide

Number buttons
The number buttons enable you to select other program numbers, or select other tracks on a CD

The STEP buttons step from one program or track to the next, forward (>) or backward (<)

Sound setting
The three buttons in the bottom row give access to storing or resetting sound levels

Secondary functions
This group of buttons gives access to all the secondary functions in the Beosystem.

For example:
- *Searching for a specific passage on a CD (<</>>)*
- *Tuning in to radio stations (<TUNE/TUNE>)*
- *Programming a sequence of tracks on a CD (CLEAR/STORE)*
- *Playing tracks in random order (RANDOM)*
- *Scanning a CD (SCAN)*

Tuning in to radio stations

RADIO — Press to turn on the radio

The A or the B in the display indicates which tuner block you are in

RA / RB — Press if you want to switch from one to the other

TUNE > — Press if you want to search for a station

or

< TUNE

The radio stops automatically at the first station producing an acceptable signal

If this is not the station you want, press TUNE> or <TUNE again to search for another

---

GO TO — Alternatively, press GO TO, then key in the frequency of the station you want,

then

9

2

9

for example 92.9 MHz

GO TO — Press if you need to fine tune

then

TUNE > — Fine tunes toward a higher frequency

< TUNE — Fine tunes toward a lower frequency

GO TO — Switches from FM to AM or vice versa

then

TURN

You can tune in to a radio station by:

- Keying in a stored program (see next page)
- Keying in the exact frequency, by pressing GO TO, then the frequency number
- Letting the radio find the station for you, by pressing TUNE> or <TUNE (the radio searches up or down the frequency band).

Once you are tuned in to a station, you can fine tune, if necessary, by pressing GO TO, then TUNE> or <TUNE.

There are two separate tuner blocks, A and B. Use the button RA/RB to switch between them.

They may be used to store two different frequencies on the same program number. This is useful if, say, you are using your Beosystem in two different places, and a stations's frequency changes from area to area.

Or you may simply use the two blocks to double the number of stations you can store.

Note: The radio will always start up in the same tuner block you were last using, unless you switch blocks yourself before tuning in.

Note: Proper FM and AM antennae must be connected to the Beosystem 2300 in order for it to pick up the stations available in your area. See the setting-up guide for details about antenna connections.

In certain countries Beosystems 2300 are sold which are not equipped to receive stations in the AM band.

Stereo sound

If you are tuned to an FM station broadcasting a stereo signal, this will be indicated by the cue **STEREO** in the display.

If the stereo signals are not strong enough to produce an acceptable sound, the system will automatically switch to mono.

You can, if you wish, overrule this automatic function and select mono manually. To do so, press TURN once you are listening to the station you want to change to mono.

When you store a station, your chosen mono sound, if any, will be stored along with the program number.

See the next page for instructions about how to store the station >

Storing stations on program numbers

Once you have found the station you want and are hearing it clearly in the loudspeakers, you can store it on a program number of your own choice. This enables you to access the station directly by keying in the appropriate number.

You can store 15 different radio stations in each of the two tuner blocks A and B.

Note: You may store an extra 5 stations in each block (on the program numbers from 16 - 20), but the stations on these numbers cannot be named (see below).

You can use the CLEAR button to clear a program number entirely, that is, to remove all the data you have previously stored on it. To do so, press CLEAR twice while you are on the program number you want to clear.

To store the station you are listening to, press — STORE

Key in the number on which you want to store the station, *for example 1* — 1

Press again to store the station — STORE

***ACCEPTED** appears in the display, indicating that the station has been stored on the chosen number*

Proceed to tune in to the next station you want, then store it on one of the other program numbers from 1-15.

Naming stations

You can give a short name of your own choice to all the stations you have stored.

This enables you to remember a station not only by its program number, which you need for access, but also by a particular name. The name of the station you are listening to appears in the lower display.

The name may contain up to 8 characters, including numbers. If you haven't given a name to a station, the station's own name appears instead, providing such a name is transmitted by the station.

Select the program number on which you have stored the station

To access the naming function — 2 x GO TO

*The cue **NAMING:** appears briefly, then the display blanks. If you have already entered a name, that name will appear*

The first of the eight character positions blinks, indicating that you can start "writing" a name

Reveals the characters one by one — STEP> *or* <STEP

Moves to the next character position — >> *or* <<

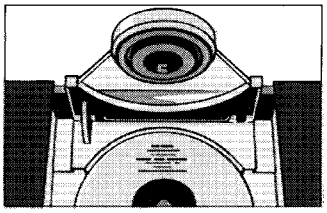
Stores the name — STORE

If you want to clear the name press CLEAR instead of STORE

Note: The naming function requires that your Beosystem is equipped with the RDS facility.

Loading a CD

LOAD — Raises or lowers the clamp which holds the CD in place



Pressing the LOAD button in the middle section of the operating panel raises the clamp which holds the CD in place.

You can now remove any CD from the compartment and load the one you want to play. Always load the CD with the label facing you.

Pressing LOAD again lowers the clamp. If you start playing the CD, the clamp lowers automatically.

Playing the CD

CD — Plays the CD in the compartment

0 *through* 9 — Plays specific track numbers

STEP > — Plays the next track

< STEP — Plays the current track again – press twice to play the previous track

STOP — Pauses playing

PLAY — Resumes playing

When you press the CD button to play the CD you have loaded, all information in the CD, for example the total number of tracks, will first be registered. Then the CD will start playing from the beginning.

While the CD is playing you can step to other tracks by pressing the appropriate number buttons, or by stepping from one to the other using STEP> or <STEP.

Playing will continue until the CD has reached the end. The Beosystem will then pause, waiting for another instruction to play. If no further instructions are received, it automatically switches to stand-by after 30 minutes.

Of course, you can stop the CD any time just by pressing STOP, which pauses the CD. If you select another source, the CD stops automatically.

The other functions the CD player can perform are the following:

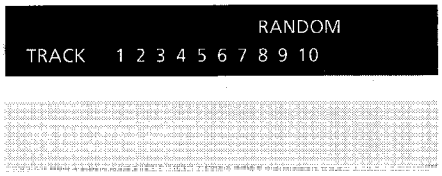
- Searching forward or backward for a specific passage
- Scanning the tracks on a CD
- Programming a sequence of tracks
- Editing a CD to play selected tracks
- Naming your CDs
- Playing tracks in random order
- Playing a CD continuously
- Playing a specific passage over and over again

See pages 12-17 for details of these functions.
Page 11 gives details of the displays and how to read them.

Reading the displays

The two displays give you information about the CD you are playing.

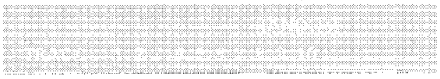
The upper display has two lines:



The upper line shows which of the special CD functions is being used, for example RANDOM for random play.

The lower line shows how many tracks are available on the CD. Tracks up to 14 are indicated by a number, whereas tracks beyond 14 are indicated by "+". The current track number blinks.

The lower display can give you four different types of information about the CD:



Name of CD (see page 15 for details)

Which track is playing

Elapsed time of the current track

Remaining time

Note: Remaining time can be read out only if you play the CD in the ordinary way, that is from beginning to end, without any special functions cut in.

Press repeatedly to switch from one display mode to the other

CD

Press the CD button while the CD is playing

Your chosen display mode will be maintained until you unload the CD.

Searching through a CD

» Searches forward toward the end of the CD

« Searches backward toward the beginning of the CD

Keep the button depressed until you have reached the point you want

You can search through the CD and start playing at any point you like – just as if you were fast forwarding or rewinding an audio tape.

You will use the buttons » or « to search through the CD (forward or backward).

Searching will continue for as long as you keep your finger on the button – at a low speed to begin with, and after 3 seconds at a high speed.

When you lift your finger off the button, the CD resumes playing. Or it will pause again, if it was pausing when you started the search.

You can keep track of the search process by watching the lower display, which will read out either track number, track time, or remaining time, depending on which display mode it has been set to.

Note: If the display has been set to showing the name of the CD, only the name will appear in the display and of course you cannot follow the search process. See the previous page for details of the various display modes.

Scanning a CD

SCAN Starts scanning the CD

*The cue **SCAN** lights up in the upper display, and the lower display shows the elapsed time of each track*

PLAY Cancels the scanning process and plays the remaining tracks in full

If you want to play the CD from the beginning, press 1 instead

The scan function enables you to play only the first 15 seconds of each track on the CD.

The scan function may be used in combination with some of the other functions in the system.

While a CD is being scanned, you may for example program a sequence of tracks, or you may program the CD to play only your favourite tracks every time you load it.

See pages 13 and 14 for details of these functions.

When the entire CD has been scanned, playing starts automatically from the beginning, that is, at track 1, or at the first track in a programmed sequence, if any.

Note: When scanning is started, the lower display automatically changes to showing the elapsed time of each track. This enables you to follow the scan function second for second as each track is being played.

Programming a sequence of tracks

You can program the CD player to play only certain tracks on the CD.

Before programming you must start playing the CD. If you don't want playing to continue while you are programming the track sequence, press STOP.

The CLEAR and STORE buttons in the right-hand side of the operating panel give access to programming a track sequence. The CLEAR button excludes tracks you don't want to hear; the STORE button includes tracks you want to hear.

For each track you want to exclude or include in the sequence you must first press CLEAR or STORE, then the appropriate number.

If you are scanning a CD and want to program a track sequence simultaneously, you need only press CLEAR or STORE while the appropriate track is being played. Immediately you press CLEAR or STORE, the next track on the CD starts playing.

The PLAY button or the CD button starts playing your programmed sequence. While the sequence is playing you can step from one track to the next by using the STEP> button.

If you want to cancel the CD sequence you have just programmed, press CLEAR and keep it depressed until the display reads ***CLEARED.***

The track sequence will also be cancelled when you unload the CD.

If you want to memorize a track sequence permanently, you must use the edit function. See page 14 for details.

Starts playing the CD — CD

then

If you want to pause the CD while programming, press STOP — STOP

Accesses the programming function — STORE

STORE _ _ *appears in the display*

Key in the first track number you want in the sequence, *for example 2* — *then* 2

STORE _ 2 *appears in the display*

Alternatively, press CLEAR, then the appropriate number to skip tracks you don't want in the sequence

Within one second ***ACCEPTED*** *appears in the display, indicating that your chosen track has been stored (or cleared)*

If ***ILLEGAL*** *appears in the display, this is a sign that the chosen track number does not exist on the CD*

Stores the next track in the sequence, *for example 4* — STORE *then* 4

Continue to store (or clear) tracks one by one using this method until your track sequence is complete

---

Plays the sequence — PLAY *or* CD

Clears the sequence *(hold down for 2 seconds)* — CLEAR

Editing a CD

Start playing your programmed track sequence, then...

EDITED — Press to access the CD edit function

The lower display now reads ***STORE?***

then

STORE — Press to memorize the programmed sequence permanently

*The cue **CD ED** appears in the upper display, indicating that the programmed sequence has been memorized permanently for the current CD*

CD — Plays the CD in its edited version

*The cue **CD ED** appears in the display together with the programmed track numbers*

CD ED — Plays the CD in full, disregarding any programmed track sequence

*The cue **CD ED** disappears, and all the tracks numbers light up*

then

EDITED — *If you want to clear a programmed sequence, press EDITED*

*The lower display now reads **CLEAR?***

then

EDITED — *Press to clear the programmed sequence completely*

The edit function enables you to program track sequences for individual CDs and memorize them permanently, so that whenever you load such an edited CD only the programmed tracks will be played.

To edit a CD you must first program a sequence of tracks as described on page 13.

When the sequence starts playing, you must press EDITED, then STORE. The cue **CD ED** appears in the upper display, indicating that the track sequence has been memorized permanently for this particular CD.

The next time you start this CD, only the programmed tracks will be played, as indicated by the information in the upper display.

If you want to override the programmed sequence, that is, hear the CD in full, you must start playing the CD, and then press the CD ED button in the middle section of the operating panel. This will make the **CD ED** cue in the upper display disappear and all the track numbers light up again. Press CD ED again to restore the programmed sequence.

You may also clear a programmed sequence completely. To do so, start playing the CD concerned, then press CD ED to override the programmed sequence. The programmed sequence is now temporarily suspended. Now press EDITED. Press CLEAR immediately to clear the sequence.

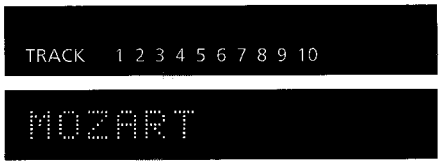
*Note: A maximum of 100 different CDs can be edited. If you exceed this limit, the display will read **ILLEGAL**, and you will have to clear a sequence before you can program another.*

Naming CDs

You can give a short name of your own choice to every CD in your collection.

This means that whenever a CD is playing, its name is read out in the lower of the two displays.

*Note: A maximum of 100 different CDs can be named. If you exceed this limit, the display will read **ILLEGAL**, and you will have to clear the name of a CD before you can name another.*



The name may contain up to 8 characters, including numbers. If you haven't given a name to the CD, ths display will read out track number track time, or remaining time instead, as described on page 11.

Play the CD you want to name — CD

Access the naming function — GO TO

*The cue **NAMING:** appears briefly, then the display blanks. If you have already entered a name, that name will appear*

The first of the eight character positions blinks, indicating that you can start "writing" a name

Reveals the characters one by one — STEP> *or* <STEP

Moves to the next character position — » *or* «

Stores the name — STORE

If you want to clear the name, press CLEAR while the name is displayed

Listing names

All the names of your CDs and their appropriate track sequences, if any, can be displayed one by one, without you having to load all the CDs one by one.

This is useful if you want to quickly leaf through all the names in your collection.

Note: You may even, if you like, clear a name and track sequence simultaneously while you are leafing through the names. This is useful if you know exactly which CD name you want to clear, but do not want to load the appropriate CD, or perhaps cannot find it.

If you want to clear a name (and track sequence), press CLEAR while the appropriate name is displayed.

Play any CD — CD

Access the memory function — 2 x GO TO

*The cue **MEMORY** appears briefly, then the name of the current CD appears*

Press to list the names one by one — STEP> *or* <STEP

Cancels the memory function and resumes playing — CD

Playing tracks in random order

CD — Start playing the CD

RANDOM — Cuts in the random play function

*The cue **RANDOM** appears in the display*

RANDOM — Press again to cancel the random play function

The random play function plays all the tracks on the CD in random order.

If you repeat a CD, you will find that the tracks are played in a different order each time the CD is played.

The button RANDOM in the right-hand side of the operating panel cuts in the random play function. Press RANDOM a second time to cancel it.

Note: If you cancel the random play function while the CD is playing, all tracks beyond the current track number will be played in chronological order, even if they have already been played while the random play function was cut in.

The random play function can also be used with CDs for which you have programmed a track sequence. This means that all the tracks included in the sequence will be played in random order.

Repeated playing

You can play a CD over and over again for up to 12 hours on end.

You may, if you like, use the repeat function in conjunction with the random play function, which means that the tracks will be played in a different order each time the CD is repeated.

The repeat function is cut in with the REPEAT button in the lower right-hand corner of the operating panel. Press REPEAT a second time to cancel the repeat function.

Note: If you switch off the Beosystem, or if you select another source, the repeat function will also be cancelled.

Start playing the CD — CD

Cuts in the repeat function — REPEAT

*The cue **REPEAT** appears in the display*

Press again to cancel the repeat function — REPEAT

A - B repeat

You can instruct the CD player to play a specific passage on the CD over and over again for up to 12 hours on end.

A "marker" must be set at the start and at the end of the passage you want to hear repeatedly. To set this marker, you will use the A ››› B button in the right-hand section of the operating panel.

The start of the passage is marked by pressing A ››› B the moment you hear it. The letter A now appears in the upper display.

The end of the passage is marked by pressing A ››› B again the moment you hear it.

The cue **A ››› B** now appears in full, together with the cue **REPEAT**, indicating that the passage selected will be played repeatedly.

If you want the passage to end at another spot, you may cancel the end marker you have just set, by pressing REPEAT. This enables you to set another end marker.

To cancel the A - B repeat function entirely, press A ››› B a third time.

Note: If you switch off the Beosystem, or if you select another source, the A - B repeat function will also be cancelled.

Start playing the CD — CD

Find the spot where you want the passage to start

Set the start marker — A ››› B

*The cue **A** now appears in the upper display*

Playing continues uninterruptedly

Find the spot where you want the passage to end, using for example » — »

Press a second time to set the end marker — A ››› B

*The cue **A ››› B** and **REPEAT** now appear, and the passage starts playing immediately*

Cancels the A - B repeat function — A ››› B

Sound adjustments

SOUND — Press repeatedly until the sound cue you want is displayed

Then adjust as required

^ — Raises sound levels; or increases the sound in the right speaker; or cuts the loudness function in

v — Lowers sound levels; or increases the sound in the left speaker; or cuts the loudness function out

---

^ — Press directly to raise the volume level

v — Press directly to lower the volume level

MUTE — Mutes the sound immediately

Press again to recall the sound

You can adjust the bass and treble levels to suit your personal taste.

You can also alter the balance between the left and right speakers of the Beosystem. This function enables you to direct the sound emerging from the speakers towards your favourite listening position.

The Beosystem 2300 also features a loudness function which you can cut in or out as you like.

The loudness function is used to compensate for the human ear's lack of sensitivity to high and low frequencies when listening to low volume levels. It "boosts" the low and high frequencies so that the music becomes more dynamic.

When the Beosystem leaves the factory, all these sound levels are set to neutral values which suit the majority of situations.

The SOUND button in the left-hand section of the operating panel gives access to adjusting sound. Each time you press SOUND a cue appears in the display, indicating which adjustment can be made. The current setting is indicated to the right of the cue.

You will use the buttons ^ and v to adjust as required.

The cues appear in this order:

VOL	*volume level*
BAL	*speaker balance*
BASS	*bass tones*
TREB	*treble tones*
LOUDNESS	*loudness*

- *Volume can be adjusted within a range of 0 (sound muted) to 90.*
- *Balance can be adjusted within a range of 7 to either side (shown as 7_ and _ 7).*
- *Bass and treble can be adjusted within a range of -6 to +6.*
- *Loudness can be set on or off:* ***LOUDNESS*** *glowing steadily for "on" and flashing for "off".*

If you only want to adjust volume, you need not press SOUND to enter the sound adjustment function. You can simply press the buttons ^ or v directly.

The MUTE button enables you to mute the sound immediately, without switching off.

Presetting start-up levels

Whenever the Beosystem is switched on, the source selected will start playing at preset sound levels. These levels can be set to suit your personal taste.

The SET button in the left-hand section of the operating panel presets the current sound levels.

Note: Before you press SET, be sure that all the sound levels, including loudness, are adjusted as desired.

Stores all sound levels as you are currently hearing them

The system will always start playing at these preset levels

SET

Reset function

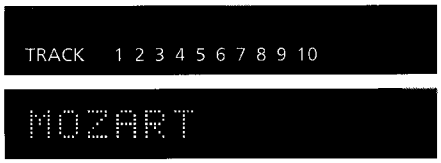
This function resets the sound levels to their preset levels. This means that if you make temporary adjustments to the sound, you can easily return to the preset levels.

The RESET button in the left-hand section of the operating panel resets the sound levels.

Resets temporarily adjusted sound levels to their preset levels

RESET

The Beosystem is in stand-by mode.



The CD contains 10 tracks. The current track number blinks.
The CD is named MOZART.

Upper display
The CD is being scanned.

This particular CD has been edited and only the tracks displayed will be played.

The ten tracks on this CD will be played in random order.

The CD is playing continuously.

A specific passage on the CD is being played continuously.

Lower display
The display shows current track instead of name.

Press CD repeatedly to switch between the different display modes.

29 minutes and 30 seconds of playing time remain (counting down).

The current track has been playing for 2 minutes and 15 seconds (counting up).

The CD has stopped.

The radio station named CLASSIC is playing. It is in tuner block A and is playing in stereo.

Radio stations can only be indicated by their names if the Beosystem is equipped with the RDS facility.

Radio program 3 is playing.
It is in tuner block B and is playing in stereo.

Press RADIO repeatedly to switch between the different display modes.

The current radio station is transmitting on FM frequency 98.7.
It is in tuner block B and is playing in stereo.

The connected Bang & Olufsen record player is playing.

The connected Bang & Olufsen tape recorder is playing.

The connected Bang & Olufsen TV is playing.

Any other auxiliary equipment is playing.

Using the Beolink 1000

Although designed primarily for close-up operation, the Beosystem 2300 can also be operated from a distance.

The Beolink 1000 terminal can operate all the primary, daily functions in your Beosystem 2300, such as switching on, selecting other radio programs or tracks on a CD, adjusting volume, and switching off.

Shown below are the primary, daily operations of the Beosystem 2300 which you can carry out from the Beolink 1000 terminal...

Plays the radio program you were last listening to — RADIO

To change to another program, press the appropriate number, *for example 3* — 3

Steps through programs — ▲ *or* ▼

Plays the CD — CD

To select another track, press the appropriate number, *for example 7* — 7

Steps through tracks — ▲ *or* ▼

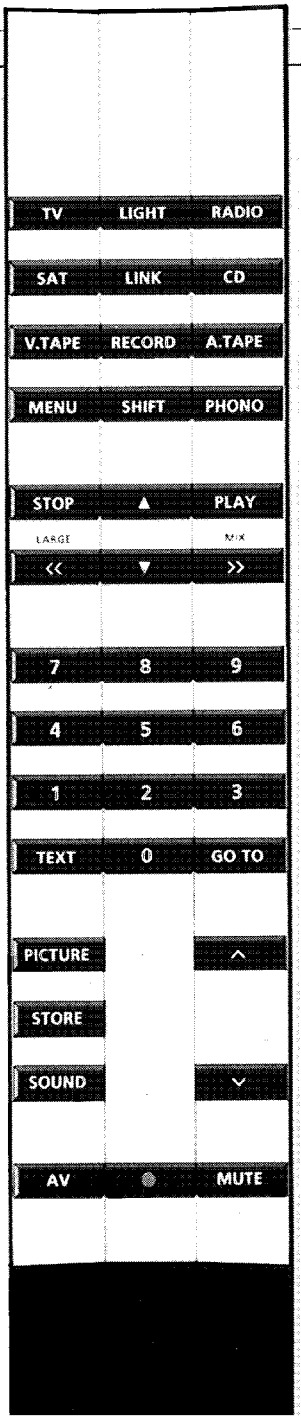
Raises the volume — ^

Lowers the volume — v

Mutes the sound immediately — MUTE

Press again to recall the sound

Switches off — ●



Note: The Beolink 1000 terminal is available as an optional extra for the Beosystem 2300 at your Bang & Olufsen dealer. In some countries, however, Beolink 1000 may be included as a standard component of the system.

Cleaning the Beosystem 2300

Before you clean the Beosystem 2300 we recommend that you disconnect it from the mains so the glass doors do not open or close automatically.

Use a soft, dry cloth to wipe dust off the Beosystem 2300.

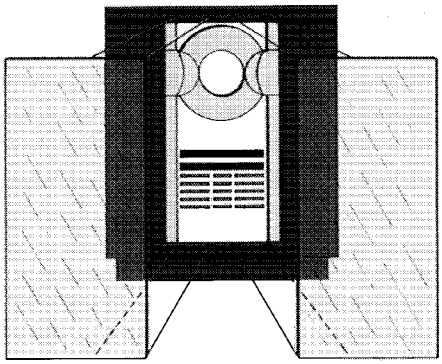
To clean the glass doors, we recommend that you use a soft cloth moistened with a few drops of window cleaner or a mild detergent.

Do not use alcohol or other solvents to clean any part of the Beosystem 2300.

Note: While the Beosystem 2300 is disconnected from the mains, you may open or close the glass doors manually, if you like. It requires only a little force to do so.

The glass doors can be removed and cleaned on the inner side, if required. To remove the glass doors simply grip them tightly (one at a time – while they are open) and gently but firmly unhook them from their four fastening points, pulling outwards.

Replace the doors by fitting them to the four fastening points again – pressing on them gently afterwards to make sure they are properly seated. Leave the doors half-way open before reconnecting the Beosystem 2300 to the mains.



Note: Treat the glass doors with care! If they crack or chip or if they are damaged in any other way, they should be replaced immediately as they could otherwise cause bodily harm. You can order replacement doors through your Bang & Olufsen dealer.

Date purchased

Contact person

Dealer

Telephone

Address

Beosystem 2300 serial number

Dear Customer,

Your needs as the user of our products are always given careful consideration during the design and development process, and we strive to make our products easy and comfortable to operate.

We therefore hope that you will take time to drop us a line, telling us about your experiences with your Bang & Olufsen system. Anything which you consider important – positive or negative – may help us in our constant efforts to refine our products.
Thank you!
Please write to:

Customer information dept. 7240
Bang & Olufsen a/s
DK-7600 Struer
Denmark

3501383 1942